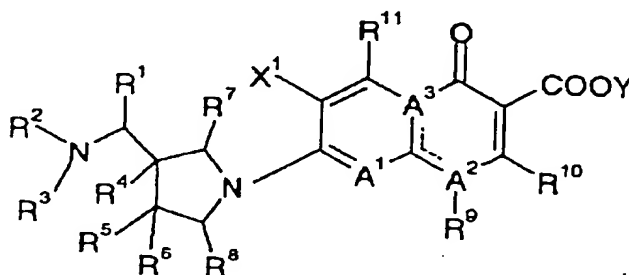


# ABSTRACT

This invention provides a quinolone derivative having potent antibacterial activity against various bacteria including drug-resistant strains which is a compound of the following formula wherein R<sup>1</sup> is an optionally substituted aromatic group, a salt of the same or a hydrate of both.



In the formula, R<sup>2</sup>, R<sup>3</sup>: hydrogen atom, an alkyl group; R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>: hydrogen atom, hydroxyl group, a halogen atom, carbamoyl group, an alkyl group, an alkoxyl group, an alkylthio group; R<sup>7</sup>, R<sup>8</sup>: hydrogen atom, an alkyl group; R<sup>9</sup>: an alkyl group, an alkenyl group, a halogenoalkyl group, a cyclic alkyl group, an aryl group, a heteroaryl group, an alkoxyl group having from 1 to 6 carbon atoms, an alkylamino group; R<sup>10</sup>: hydrogen atom, an alkylthio group; R<sup>11</sup>: hydrogen atom, amino group, hydroxyl group, thiol group, a halogenomethyl group, an alkyl group, an alkenyl group, an alkynyl group, an alkoxyl group; X<sup>1</sup>: halogen atom, a hydrogen atom; A<sup>1</sup>: nitrogen atom, C-X<sup>2</sup>; X<sup>2</sup>: hydrogen atom, amino group, a halogen atom, cyano group, an halogenomethyl group, a halogenomethoxyl group, an alkyl group, an alkenyl group, an alkynyl

group, an alkoxyl group;  $A^2, A^3: >C=C(-A^1)=N(-R^9)-, >N-C(-A^1)=C(-R^9)-;$   
 $R^{10}$  and  $R^9$  or  $R^9$  and  $X^2$  may be integrated to form a ring structure;  
and Y: hydrogen atom, ester forming group.

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